Amateur Radio Station

LOG

AMERICAN RADIO RELAY LEAGUE

NEWINGTON, CONNECTICUT, U.S.A.

CALLSIGN

VP5D

Book No. _____

From 11/11/81

To _____

Price $1.75 in U.S.A.

OPTIONAL

ATTACH PHOTOCOPY OF YOUR LICENSE HERE.

IMPORTANT—FILL THIS OUT

CALLSIGN _____

Unless otherwise noted in the "COMMENTS" column, the following pertains to all entries made in this log:

Station Location _____
(Street Address)

_____
(City/Town)

_____ _____
(State/Province) (Country)

Time entries are in (check one): ☐ Coordinated Universal Time (UTC)

☐ _____ Time

Operator's Signature _____

EMISSION TYPES

- AØ Steady, unmodulated, pure carrier.
- A1 Telegraphy on pure continuous wave.
- A2 Amplitude tone-modulated telegraphy.
- A3 Amplitude-modulated telephony. A3 includes single and double sideband with full, reduced or supressed carrier.
- A4 Facsimile (amplitude-modulated).
- A5 Television (amplitude-modulated).
- F1 Frequency-shift keying (fsk).
- F2 Audio-frequency-shift keying (afsk).
- F3 Frequency or phase-modulated telephony.
- F4 Facsimile (frequency-modulated).
- F5 Television (frequency-modulated).
- P Pulse.

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ABOUT THIS LOG

THE ARRL UNIVERSAL LOG

Besides maintaining the minimum requirements, most radio amateurs keep a detailed log of their on-the-air activities. Such facilitates confirmation of QSL requests, investigation of potential TVI/RFI complaints, and detection of unauthorized use of your callsign. Keeping a neat accurate log is a matter of personal pride with the active radio amateur.

The ARRL Universal Log suits every type of amateur operation, DXing, contests, ragchews, casual. The left-hand segment of the log sheet contains generally **fixed** information which is not subject to change between contacts. This includes DATE, FREQ., MODE, and POWER. Consult the inside cover for mode designation unless you prefer to enter CW, SSB, FM, etc. The power should be indicated in watts input.

The right-hand segment of the log sheet contains the **variable** items that will change from contact to contact. This includes TIME (UTC recommended and indicated on inside cover), callsign of the STATION WORKED, and RST REPORT SENT and RECEIVED. The TIME OFF column may also be used to log EXCHANGE information for state QSO Parties and contests for which separate log sheets are not used. This column is located adjacent to the REPORT RECEIVED to facilitate this use. Otherwise, the station operator may use this column to log TIME OFF for ragchews and casual contacts. The COMMENTS column may be used for QTH, NAME, and QSL information, or any other information that the operator wishes to note. The COMMENTS column should also be used to indicate any variation from the standard information required on the inside cover. A checkmark will indicate QSL sent and received.

Be sure to fill out the required information on the inside cover.

LOG REQUIREMENTS

Although logging requirements have been relaxed in recent years, every Amateur Station in the U.S. must have a log with the following items as a **minimum** requirement:

1) The call sign of the station, the signature of the station licensee, or a photocopy of the station license.

2) The locations and dates upon which fixed operation of the station was initiated and terminated. If applicable, the location and dates upon which portable operation was initiated and terminated at each location.

3) The date and time periods the duty control operator for the station was other than the station licensee, and the signature and primary station call sign of that duty control operator.

4) A notation of third-party traffic sent or received, including names of all third parties, and a brief description of the traffic content. This entry may be in a form other than written, but one which can be readily transcribed by the licensee into written form.

5) Additional information as directed by the FCC.

6) Additional technical and other information when a station is remotely controlled, when a station has one or more associated stations, or when a station is operated in repeater operations. (See §97.103 of the Amateur Rules.)

RETENTION OF LOGS

The station log must be kept for a period of at least one year from the date of the last entry and be made available to the FCC for inspection if required.

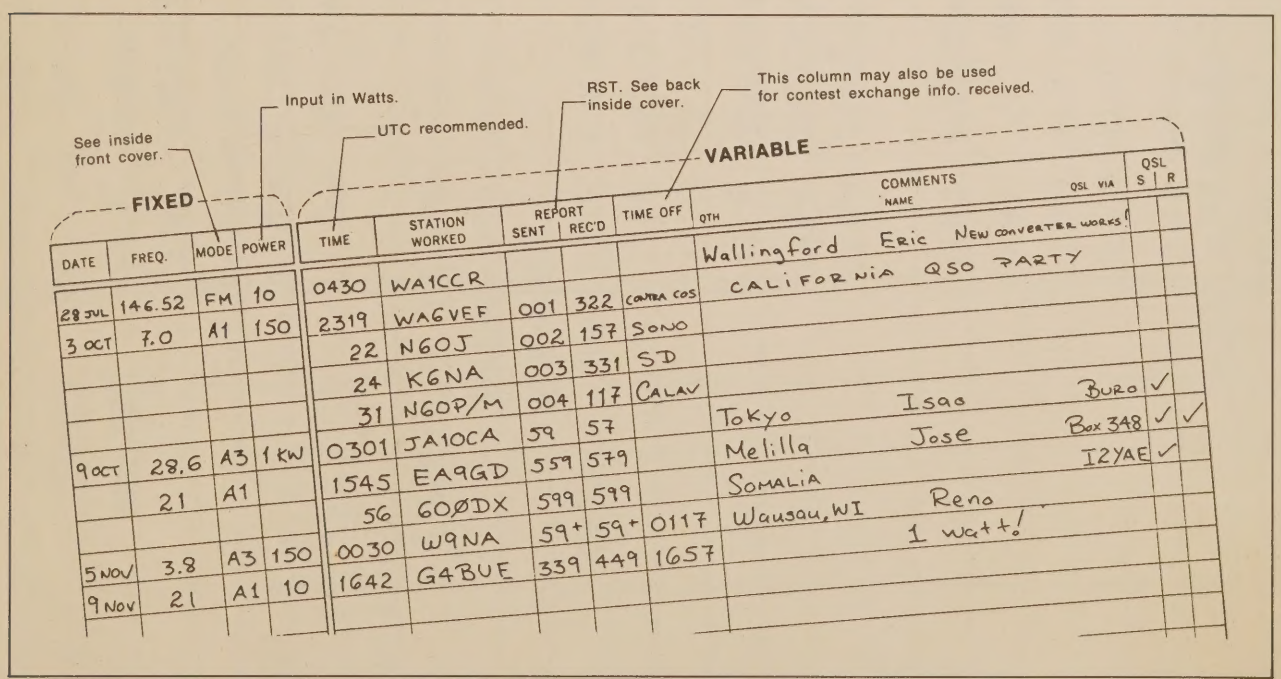
PORTABLE AND MOBILE OPERATIONS

Amateurs do not need to notify the FCC of mobile or portable operations. However, as seen in number 2 (above), the licensee must make a notation in the station log setting forth the locations and dates upon which fixed operation of the station is initiated and terminated. In addition, the licensee must make a notation for each time **portable** operation is initiated and terminated.

FCC defines portable operation as radiocommunications conducted from a specific geographical location other than that shown on the station license. Mobile operation is radiocommunication conducted while in motion or during halts at unspecified locations.

AVAILABILITY OF LICENSE

You must have your original license (or a photocopy) with you when you are operating mobile, portable, or guest-operating at another station. At your own station location you may post your license (or a photocopy) near the operating position in lieu of having it on your person. A convenient place is provided on the inside cover of this logbook for attaching a photocopy of your license. If you are guest-operating, you must have available for inspection the station license (or a photocopy) for that station, in addition to your own operator's license.



STATION NOTES:

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11-11	~~1305~~				EL2AV SOON ON						
	28.885			1318	EL2AV	59	59				
				1318	VE2DFU	"	"		DOW		
			1320	- Band DIED - SID apparently HOT - WIC Gone.							
				Opening EAST END TO MID, N E USA - DFU Reported Aurora JUST							
				as BICS stopped -							
11-12	-										
	1205Z			- DL3/44	Beam BS	38W		334	(NUFAF)	569	FM7 Guam
				PY2AA 229 - Same							
				CSAEH -							
	50.090		1W	1215	CSAEH	579	55				
				1216	VE1YX	59	59				
				1217	944LL	55	55		EL5A		
				1219	Z/32BL	57	55		JAMAICA · 105		
				1233	8PGKX	58	56		JOHN		
				1234	8PGCX	22	~~44~~		PAUL -		
							52				
				1242	WB1FUB	57	57				
				1243	VE1BNN	55	55				
				1243	W2IDZ	55	55		ED		
				1244	W1FZ	54	54		JIM		
				1245	WA1GDO	53	53		NUBANUSIC		
			1245	KA1A~~/AARD~~		55	55				
				1246	K1WW	55	55				
				1247	K1JRW	55	54		RAY		

645RS – 144.7

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/12	50.120			1250	WIEJ	55	56		Tom		
				1252	WA1AYS	55	55		Steve		
				1253	WA1VRH	56	57		Ron		
				1255	K1NDF	54	54		Neal –		
				1256	W2CRS	56	56		Doug –		
				1257	K1ISR	58	57				
				1257	N4EJW	44	59		Flm.		
				1258	WB2RYY	56	56		Richie		
				1258	WA1YKM	56	56		CT.		
				1259	WA1EKV	59	59				
				1300	KA1GD/3	55	55				
				1300	WA1GYL	56	57				
				1300	WB1FNM	57	53				
				1300	K3TRM	55	57		Frank		
				1301	WB2ØBLP/4	44	53				
				1301	WA1CRE	55	55		B57		
					VE1YX						
				1302	VE2SH	59	57		TUCO		
				– 1342 –	KØGUV	40/9 –					
				1347	KØGUX	58	59		MM		
				1348	WBØNHP	59	59		Dove – MN.		
				1349	NØDBG	44	55		" MN		
				1425	WDØEDH	59	59		Wes Col.		
				1426	WBØLTV	59	58		Sammy Col. #2610 –		
				1427	WØIC	59	59		–		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11-12				1428	NØAK/m	57	59		Rich		
				1429	KAGDOJ/1	57	59		Wyatt		
				1430	WDØCHO	59	59		Tom / MN		
				1432	KØGUV	59	59				
				1432	KAØAYN	59	59		Ron - MN		
				1433	WB9OJF	59+	59+		ole - WI		
				1434	KAØETE	59	59		Jeanne MN		
				1434	WBG HAW	59	59		BOB		
				1435	KI WVE/Ø	59	59		Bud - MN		
				1436	NØCEB	59	59		Chuck		
				1437	KØFTG	59	59		Bill		
				1437	WDØDJH	59	59		John -		
				1438	WØGV	59	59				
					[redacted]						
				1438	KØWM	59	59		Bruce		
				1439	NØLL	57	56		Lenny		
				1440	KBØEJ	59	59				
				1441	NØAMD	57	59		Gene		
				1442	KFØY	59	59		Dan - (NB.		
				1442	W7AAW	59	59		AZ Carl		
				1443	NØCXE	59	59		MN		
				1444	KØGQG	59	59		MN		
				1452	WØQIN	59	59		Bob -		
				1453	N6AMD	59	59		Ray San Diego		
				1455	WBGJVD	58	59		-		

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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
				1456	W5VLJ/7	56	59				
				1639	AAGS	59	59				
				"	WB6YIK	59	59		Carl		
				1644	W6RRN	59	59				
				1647	WA7FUP	59+	59+		Bert -		
					W7ABX	59	59+		Joe		
					KB7WW	59	59				
					NDBLS	59	59				
					WB7BII	59	59				
					WBGJS	59	59				
					WB7PPK	59	59				
					KA7BZJ	59	59				
					K7CA	59	59				
					W7JPA	59	59				
					W7PRW	59	59				
					K7GGJ	59	59				
					W7RPT	59	59				
				1650	VE7ADB	56	55				
					VE5JQ	59	59				
					[illegible]						
					WDGAFC	59	59				
					KG5SJ	59	59		Bob		
					KG4AX	59	59		Bob		
					KH6JG	59	59		Ron		
					KG6QR	59	59				

DATE	FREQ.	MODE	POWER

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
1652	KG6PXT	59	59				
1655	K6M4C	59	59				
	K6HCP						
	K8 RCG/7	59	59				
	~~WA6 B4A~~						
	VE9WD	57	57				
	~~K6CO~~						
1659	W7KUN	57	59		GOOD —		
1700	K7WT	59	59		WYOM/ON		
1701	W7DY	59	59		Roger / ~~ID~~.		
	WA6 B4A	59	59				
1702	WB6 ARF	59	59		—		
	K7QXL	55	55				
	W7FY	59	59				
1704	KB6OK	53	57				
1705	K7LYT/7	55	57		— WAY		
1706	WA6MLA	53			— OMG		
	N7ZL	56	59		DEAR —		
	WB7AJP	59	58				
	WA7LNO	44	55				
1708	K7TRE	59	59				
	WB6JMM	55	55				
	KA7DLK	59	59				
1742	WA7HQG	59	59				
1743	K7RWT	59	59				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11-12	- TI2WA	vem		2300	TI - 077 -				TEST de TI2WA SK		
11-13	- FY7 59+20			as 0200	TI, P42AA	339,	44	56 -			
	1204Z -	VE1YX			BKS - N of		AF	Hearing			
	FY7 - as 1211 -				E-Y2-A	339					
	Cmnd Comm			108.6 / 124.2		KP4EOR - BKS 22					
	Munster Fm Ch -			as .100		RSM .0407					
	CSA + BKS 229 / CLA - CW						142.6 - 579		JUST NORTH AF Hearing		
	CW? .200				LV1						
	1230 - W1			BKS - N of AF							
				1233	N3ANH	58	55				
					W1ICW	55	56				
					WB1FMB	58	55		ARRY		
					WA1ZMB	55	55		-		
					K2CBA	58	55		JIM -		
				1238	K1FPV	55	53		-		
					W3KKN	56	55		ERNIE		
					VE2YU	54	54				
					KA1A	55	55		DON -		
					VE2SH	44	44		-		
					K2JFV	55	56				
					W2CMS	55	52				
					W3ZCUS	55	55				
					KA1DHO	55	53				
					W1FZ	55	55				
				1244	W1CCS	55	55				

G3 VZJ DJ8ZL 103.9 BCX WD2A

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11-13				1245	K1JRW	54	54				
					W1QXX	55	33		Ma		
	DX STUFF				K2OVS	44	55				
				47	W2VO	55	55				
					W1XM	44	35				
					K1QWE	32	32				
					K1ISR	57	55				
					K1MKV	55	57				
				49	K1LHT	55	55				
				CSAE# - 58 PIC - 105.3 - 1254							
				56	CSAE#	59	59				
				1331	PAØXMA	55	57		MARC 105.		
				1335	"	59	59				
				1343	GW3MHW	59	529	28/10			
				1346	G3VZJ	52	59		ALAN -		
			28	1353	G4ALL	59	59		ELSA		
				1357	8P6KX	59	59		JUAN		
			50	- 1515 - KGØNV/7'S / VESUS / KØGUV							
				1521	WB5LOL	59	57		FRANK -		
				1525	K5FF	59	59				
				1528	K7NV	59	59				
				1528	N7BPA	59	59		JACK -		
	TO W3HNK			1530	NØADO	57	55		BOB - COL		
12/04/11 at 0110 - LU2 Beam / 049											

HC8VHF - 1.110
↑ K2QIE

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS (QTH / NAME / QSL VIA)	QSL S	QSL R

Cape Cod Packet Amateur Radio Club

N4PS - Amateur Crew (K3YVW) Where Ham Packet Flows Sensitivity

1900 Z - Monday - 14.309

(JE6SYZ - Lyes Same (CICAS(W) Mirandola WB6PQP - +1.5 to 2 dbs

Change N9 CHIS - 3, -4, 7 -

	F1	F3
3	12.0	~~12.0~~
6	12.5	13.8
8 -		
4 -		

13, 22 Central only .5 Mirrors 3 Times

15, 19, 21

1.) Dem 11.0
22 11.5
23, 24
Usage 1.5 dbs
9, 12 - Usage (.0 dbs)
+1.3 dbs

18, 23, 24 - 11+1 12 3, 18 2, 13 1

N7CC

F3R - Lee -
Position - Lee -
2 mtr. Simplex of Navigation -
with IKE -
Down to Center -
Sweeping out Bird -
- 24 TH open -
(K 3, 4, 7 down 1.2
WA1C-VIA WB1 - Eng Uplinks -
WB6PQP - Eng Uplinks -
wk. F1 - Tech Monday 50
3, 7 - #3 -

F3R - Monday - 535 CST -
F1/F3 - changed to 36 days -
Some days 7 days -
24 TH of 37 B.T. -
(Out of Box)

Will pick up (times) with days / to Lee of Tom

130.75 -

WMX/SSS/
Will switch F3R - ? - alone -
3 Satellites / 4 States - 141 - 331

WA1HWM/

ARRL DXCC LIST

These rules are effective for 6 different types of DXCC Awards as outlined in Rule 1 below. Changes are announced under DXCC Notes in QST.

1) The DX Century Club Award, with certificate and DXCC lapel pin, is available to ARRL members in Canada, the U.S. and possessions, and Puerto Rico, and all amateurs in the rest of the world. There are 6 separate DXCC awards available:

(a) **Mixed** (general-type): contacts may be made using any mode since November 15, 1945. This DXCC is endorsable; see Rule 5.

(b) **Phone:** contacts must be made using radiotelephone since November 15, 1945. This DXCC is endorsable; see Rule 5.

(c) **CW:** contacts must be made using CW since January 1, 1975. This DXCC is endorsable; see Rule 5.

(d) **RTTY:** contacts must be made using radioteletype since November 15, 1945. This DXCC is *not* endorsable.

(e) **160-Meter:** contacts must be made on 160-meters since November 15, 1945. This DXCC is *not* endorsable.

(f) **Satellite:** contacts made using the satellite since March 1, 1965. This DXCC is only available for contacts made through polar-sun synchronous satellites of altitudes less than 1,500 miles. This DXCC is *not* endorsable.

2) Confirmations must be submitted direct to ARRL Headquarters for all countries claimed. Claims for a total of 100 or more countries must be included with first application.

3) The ARRL Countries List criteria will be used in determining what constitutes a "country".

4) Confirmations must be accompanied by a list of claimed countries and stations to aid in checking and for future reference.

5) With the exception of the 160-Meter, RTTY and Satellite DXCCs, confirmations from additional countries may be submitted for further credits as follows: for accredited totals between 100 and 250, in increments of 25 that will, at least, bring the new total up to the next endorsement sticker level; for accredited totals between 250 and 300, in increments of 10 that will, at least, bring the new total up to the next endorsement sticker level; for total accredited countries over 300, in increments of 5 that will, at least, bring the new total up to the next endorsement sticker level. Endorsement stickers for affixing to certificates will be awarded as additional credits are granted. These stickers will be in exact multiples of 25, i.e. 125, 150, 175, between the 100 and 250 levels and in multiples of 10 between 250 and 300 and in multiples of 5 above the 300 levels.

Exception. Once per year, any DXCC participant having an accredited DXCC total of 250, or more, may make a submission without regard to the number of cards submitted.

6) All contacts must be made with amateur stations working in the authorized amateur bands or with other stations licensed to work amateurs.

7) In cases of countries where amateurs are licensed in the normal manner, credit may be claimed only for stations using regular government-assigned call letters. No credit may be claimed for contacts with stations in any countries in which amateurs have been temporarily closed down by special government edict where amateur licenses were formerly issued in the normal manner.

8) All stations contacted must be "land stations". Contacts with ships, anchored or otherwise, and aircraft, cannot be counted.

9) All stations must be contacted from the same DXCC "country".

10) Contacts may be made over any period of years since November 15, 1945, for the Mixed, Phone, 160-Meter and RTTY DXCCs, January 1, 1975, for the CW DXCC, and from March 1, 1965, for the Satellite DXCC, provided only that all contacts be made under the provisions of Rule 9, and by the same station licensee; contacts may have been under different call letters in the same area (or country), if the licensee for all was the same.

(You may feed one DXCC from several calls held simultaneously.)

11) Any altered or forged confirmations submitted for CC credit may result in disqualification of the applicant. The eligibility of any DXCC applicant who was ever barred from DXCC to reapply, and the conditions for such application, shall be determined by the Awards Committee. Any holder of the Century Club Award submitting forged or altered confirmations must forfeit his right to continued DXCC participation.

12) Operating Ethics:

(a) Fair play and good sportsmanship in operating are required of all DX Century Club members. In the event of specific objections relative to continued poor operating ethics, an individual may be disqualified from the DXCC by action of the ARRL Awards Committee.

(b) Credit for contacts with individuals who have displayed continued poor operating ethics may be disallowed by action of the ARRL Awards Committee.

(c) For (a) and (b) above "operating" includes confirmation procedures.

13) ARRL MEMBERSHIP IS REQUIRED of all DXCC applicants in Canada, the U.S. and possessions, and Puerto Rico. All new DXCC applications must contain sufficient funds for safe return postage in the form of U.S. currency, check or money order. For DXCC endorsements and completions of new applications, sufficient funds for safe return postage are also required. A chart showing suggested sums for return postage is available on request from ARRL Headquarters.

14) ARRL MEMBERSHIP IS NOT REQUIRED of foreign applicants. Each new DXCC application *must* contain sufficient funds for safe return postage. For DXCC endorsements and completions of new applications, sufficient funds for safe return postage are also required. A chart showing suggested sums for return postage is available on request from ARRL Headquarters.

15) Decisions of the ARRL Awards Committee regarding interpretation of the rules here printed or later amended shall be final.

16) Address all applications to ARRL, DXCC, 225 Main Street, Newington, CT, U.S.A. 06111.

Countries List Criteria

The ARRL Countries List is the result of some 38 years of progressive changes in DXing. The full list will not necessarily conform completely with these criteria since some of listings were set up and recognized from pre-WWII. While the general policy has remained the same, specific mileages and additional points have, over the past 13 years, been added to the criteria. The specific mileages in Point 2(a) and Point 3, mentioned in the following, have been used in considerations made in April 1960, and after. The specific mileage in Point 2(b) has been used in considerations made in April, 1963, and after.

Any land area in the world, with the exception of such land that would come under Point 4 and 5, can be placed in one or more of the following categories. Where the area in question meets at least one of the points in the criteria it may be considered eligible as a separate entity, i.e. a country, for our Countries List.

1) *Government:* An area by reason of Government constitutes a separate entity.

2) *Separation by water:* An island or a group of islands, not having its own government is considered as a separate entity under the following conditions:

(a) Islands situated off shore from their governing area must be geographically separated by a minimum of 225 miles of open water. This point is concerned with islands off shore from the mainland *only*. This point *is not* concerned with islands which are part of an island group or are geographically located adjacent to an island group.

(b) Islands forming part of an island group or which are geographically located adjacent to an island, or island group, which have a common government, will be considered as separate entities provided there is at least 500 miles of open water separation between the two areas in question.

3) *Separation by foreign land:* In the case of a country, such as that covered by Point 1, which has a common government but which is geographically separated by land which is foreign to that country, if there is a complete separation of the country in question by a minimum of 75 miles of foreign land, the country is considered as two separate entities. This 75 miles of land is a requirement which is applicable to land areas *only*. In cases of areas made up of a chain of islands, there is no minimum requirements concerned with the separation by foreign land.

4) *Unadministered area:* Any area which is unadministered will not be eligible for consideration as a separate entity.

5) (a) Any area which is classified as a Demilitarized Zone, Neutral Zone or Buffer Zone will not be eligible for consideration as a separate entity.

(b) Embassies, consulates and extra-territorial monuments will not be eligible for consideration as a separate entity from the host country.

Current Countries Total: 318

A2 ..... Botswana
A3 ..... Rep. of Tonga
A4X ..... Oman
A5 ..... Bhutan
A6X ..... United Arab Emirates
A7X ..... Qatar
A9X ..... Bahrain
AA (See K)
AP ..... Pakistan
BV ..... Taiwan
BY ..... China
C2 ..... Rep. of Nauru
C3 ..... Andorra
C5 ..... The Gambia
C6 ..... Bahamas
C9 ..... Mozambique
CE ..... Chile
CE9,FB8Y,KC4,LA,LU-Z,OR4,UA1,UK1, VKØ,VP8,ZL5,ZS1,3Y,4K,8J ..... Antarctica
CE9 (See VP8)
CEØA ..... Easter Is.
CEØX ..... San Felix
CEØZ ..... Juan Fernandez
CM,CO ..... Cuba
CN ..... Morocco
CP ..... Bolivia
CR9 ..... Macao
CT ..... Portugal
CT2 ..... Azores
CT3 ..... Madeira Is.
CX ..... Uruguay
D2, 3 ..... Angola
D4 ..... Rep. of Cape Verde
D6[26] ..... Comoros
DA,DF,DJ,DK,DL[2] ..... Fed. Rep. of Germany
DM,DT,Y2-9[3] ..... German Democratic Rep.
DU ..... Rep. of Philippines
EA ..... Spain
EA6 ..... Balearic Is.
EA8 ..... Canary Is.
EA9 ..... Ceuta and Melilla
EI ..... Rep. of Ireland
EL ..... Liberia
EP ..... Iran
ET ..... Ethiopia
F ..... France
FB8W ..... Crozet
FB8X ..... Kerguelen Is.
FB8Y (See CE9)
FB8Z ..... Amsterdam & St. Paul Is.
FC[1] ..... Corsica
FG ..... Guadeloupe
FG,FS[1] ..... Saint Martin
FH[26] ..... Mayotte
FK ..... New Caledonia
FM ..... Martinique
FO ..... Clipperton I.
FO ..... Fr. Polynesia
FP ..... St. Pierre & Miquelon
FR[4] ..... Glorioso Is.
FR[4] ..... Juan de Nova, Europa
FR ..... Reunion
FR ..... Tromelin
.....
FW ..... Wallis & Futuna Is.
FY ..... Fr. Guiana
G ..... England
GD ..... Isle of Man
GI ..... Northern Ireland
GJ,GC ..... Jersey
GM ..... Scotland
GU,GC ..... Guernsey & Dependencies
GW ..... Wales
H4,VR4 ..... Solomon Is.
HA ..... Hungary
HB ..... Switzerland
HBØ ..... Liechtenstein
HC ..... Ecuador
HC8 ..... Galapagos Isls.
HH ..... Haiti
HI ..... Dominican Rep.
HK ..... Colombia
HKØ ..... Bajo Nuevo
HKØ ..... Malpelo I.
HKØ ..... San Andres & Providencia
HKØ (See KS4)
HL,HM ..... Korea
HP ..... Panama
HR ..... Honduras
HS ..... Thailand
HV ..... Vatican
HZ,7Z ..... Saudi Arabia
I, IT ..... Italy
IS ..... Sardinia
J2, FL8 ..... Djibouti
J3, VP2G ..... Grenada & Dependencies
J5,CR3 ..... Guinea-Bissau
J6,VP2L ..... St. Lucia
J7,VP2D ..... Dominica
JA-JN,KA ..... Japan
JD,KA1[6] ..... Minami Torishima
JD,KA1[5] ..... Ogasawara
JT ..... Mongolia
JW ..... Svalbard
JX ..... Jan Mayen
JY ..... Jordan
K, W, N, A ..... United States of America
KB,KH1 ..... Baker, Howland & American Phoenix Is.
KC4 (See CE9)
KC4, KP1 ..... Navassa I.
KC6 ..... Eastern Caroline Is.
KC6 ..... Western Caroline Is.
KG4 ..... Guantanamo Bay
KG6,KH2 ..... Guam
KG6R,S,T,KHØ ..... Mariana Is.
KH6 ..... Hawaiian Is.
KH7 ..... Kure I.
KJ, KH3 ..... Johnston I.
KL7 ..... Alaska
KM,KH4 ..... Midway Is.
KP4 ..... Puerto Rico
KP4[27] ..... Desecheo Is.
KP6,KH5K ..... Kingman Reef
KP6,KH5 ..... Palmyra, Jarvis Is.
KS4,KP3,HKØ ..... Serrana Bank & Roncador Cay
KS6,KH8 ..... American Samoa
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KV,KP2 ..... Virgin Is.
KW,KH9 ..... Wake I.
KX ..... Marshall Is.
LA,LB,LF,LG,LJ ..... Norway
LA (See CE9)
LU ..... Argentina
LU-Z (See CE9, VP8)
LX ..... Luxembourg
LZ ..... Bulgaria
M1[1] (See 9A)
N (See K)
OA ..... Peru
OD ..... Lebanon
OE ..... Austria
OH ..... Finland
OHØ ..... Aland Is.
OJØ ..... Market
OK ..... Czechoslovakia
ON ..... Belgium
OR4 (See CE9)
OX,XP ..... Greenland
OY ..... Faroe Is.
OZ ..... Denmark
P2[7] ..... Papua New Guinea
PA,PD,PE,PI ..... Netherlands
PJ ..... Neth. Antilles
PJ ..... St. Maarten, Saba, St. Eustatius
PY ..... Brazil
PYØ ..... Fernando de Noronha
PYØ ..... St. Peter & St. Paul's Rocks
PYØ ..... Trindade & Martin Vaz Is.
PZ ..... Surinam
S2 ..... Bangladesh
S7 ..... Seychelles
S9,CR5 ..... Sao Tome & Principe
SK,SL,SM ..... Sweden
SP ..... Poland
ST ..... Sudan
STØ ..... Southern Sudan
SU ..... Egypt
SV ..... Greece
SV ..... Crete
SV ..... Dodecanese
SV ..... Mount Athos
T2,VR8[16] ..... Tuvalu
T3,VR1 ..... Cent. Kiribati (Brit. Phoenix Is.)
T3,VR1 ..... West Kiribati (Gilbert & Ocean Is.)
T3,VR3 ..... East Kiribati (Line Is.)
TA ..... Turkey
TF ..... Iceland
TG ..... Guatemala
TI ..... Costa Rica
TI9 ..... Cocos I.
TJ ..... Cameroon
TL[8] ..... Central African Rep.
TN[9] ..... Congo
TR[10] ..... Gabon
TT[11] ..... Chad
TU[12] ..... Ivory Coast
TY[13] ..... Benin
TZ[14] ..... Mali
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1. Unofficial prefix.
2. (DA, DJ, DK, DL) Only contacts made September 17, 1973, and after, will count for this country.
3. (DM, DT, Y2-9) Only contacts made September 17, 1973, and after, will count for this country.
4. (FR7) Only contacts made June 25, 1960, and after, will count for this country.
5. (JD, KA1) Formerly Bonin and Volcano Islands.
6. (JD, KA1) Formerly Marcus Island.
7. (P2) Only contacts made September 16, 1975, and after, will count for this country.
8. (TL) Only contacts made August 13, 1960, and after, will count for this country.

UA; UK1,3,4,6; UV; UW1-6; UN1 ..... European Russian S.F.S.R.
UA1,UK1 ..... Franz Josef Land
UA1,UK1 (See CE9)
UA2,UK2F ..... Kaliningradsk
UA,UK,UV,UW9-Ø ..... Asiatic R.S.F.S.R.
UB,UK,UT,UY5 ..... Ukraine
UC2,UK2A/C/I/L/O/S/W ..... White R.S.S.R.
UD6,UK6C/D/K ..... Azerbaijan
UF6,UK6F/O/Q/V ..... Georgia
UG6,UK6G ..... Armenia
UH8,UK8H ..... Turkoman
UI8,UK8 ..... Uzbek
UJ8,UK8J/R ..... Tadzhik
UL7,UK7 ..... Kazakh
UM8,UK8M,N ..... Kirghiz
UO5,UK5O ..... Moldavia
UP2,UK2B/P ..... Lithuania
UQ2,UK2G/Q ..... Latvia
UR2,UK2R/T ..... Estonia
VE,VO,VY1 ..... Canada
VE1 ..... Sable I.
VE1 ..... St. Paul I.
VK ..... Australia
VK ..... Lord Howe I.
VK9 ..... Willis I.
VK9 ..... Christmas I.
VK9 ..... Cocos-Keeling Is.
VK9 ..... Mellish Reef
VK9 ..... Norfolk I.
VKØ (See CE9)
VKØ ..... Heard I.
VKØ ..... Macquarie I.
VO (See VE)
VP1 ..... Belize
VP2A[15] ..... Antigua, Barbuda
VP2E[15] ..... Anguilla
VP2K[15] ..... St. Kitts, Nevis
VP2M[15] ..... Montserrat
VP2S[15] ..... St. Vincent & Dependencies
VP2V[15] ..... Brit. Virgin Is.
VP5 ..... Turks & Caicos Is.
VP8 (See CE9)
VP8 ..... Falkland Is.
VP8,LU-Z ..... So. Georgia Is.
VP8,LU-Z ..... So. Orkney Is.
VP8,LU-Z ..... So. Sandwich Is.
VP8,LU-Z,CE9,HFØ,4K ..... So. Shetland Is.
VP9 ..... Bermuda
VQ9 ..... Chagos
VR6 ..... Pitcairn I.
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VS5 ..... Brunei
VS6 ..... Hong Kong
VS9 (See 8Q)
VS9K ..... Kamaran I.
VU ..... India
VU7 ..... Andaman & Nicobar Is.
VU7 ..... Laccadive Is.
W (See K)
XE ..... Mexico
XF4 ..... Revilla Gigedo
XP (See OX)
XT[17] ..... Upper Volta
XU ..... Khmer Rep.
XV ..... Vietnam
XW ..... Lao People's Dem. Rep.
XZ ..... Burma
YA ..... Afghanistan
YB,YC[21] ..... Indonesia
YI ..... Iraq
YJ ..... New Hebrides
YK ..... Syria
YN,HT ..... Nicaragua
YO ..... Rumania
YS ..... Salvador
YU ..... Yugoslavia
YV ..... Venezuela
YVØ ..... Aves I.
ZA ..... Albania
ZB ..... Gibraltar
ZC (See 5B)
ZD7 ..... St. Helena
ZD8 ..... Ascension I.
ZD9 ..... Tristan da Cunha & Gough I.
ZE ..... Zimbabwe
ZF ..... Cayman Is.
ZK1 ..... So. Cook Is.
ZK1 ..... No. Cook Is.
ZK2 ..... Niue
ZL ..... New Zealand
ZL ..... Auckland I. & Campbell I.
ZL ..... Chatham Is.
ZL ..... Kermadec Is.
ZL5 (See CE9)
ZM7 ..... Tokelaus
ZP ..... Paraguay
ZS1,2,4,5,6,(H5,S8,T4[1]) ..... Rep. of South Africa
ZS1 (See CE9)
ZS2 ..... Prince Edward & Marion Is.
ZS3 ..... (Namibia) Southwest Africa
1S[1] ..... Spratly Is.
3A ..... Monaco
3B6,7 ..... Agalega & St. Brandon
3B8 ..... Mauritius
3B9 ..... Rodrigues Is.
3C ..... Equatorial Guinea
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3CØ ..... Annobon
3D2 ..... Fiji Is.
3D6 ..... Swaziland
3V ..... Tunisia
3X ..... Rep. of Guinea
3Y ..... Bouvet
3Y (See CE9)
4K (See CE9)
4S ..... Sri Lanka
4U ..... I.T.U. Geneva
4U ..... Hq., United Nations
4W ..... Yemen
4X,4Z ..... Israel
5A ..... Libya
5B,ZC ..... Cyprus
5H ..... Tanzania
5N ..... Nigeria
5R ..... Malagasy Rep.
5T[18] ..... Mauritania
5U[19] ..... Niger
5V ..... Togo
5W ..... Western Samoa
5X ..... Uganda
5Z ..... Kenya
6O ..... Somali
6W[20] ..... Senegal
6Y ..... Jamaica
7O ..... People's Dem. Rep. of Yemen
7P ..... Lesotho
7Q ..... Malawi
7X ..... Algeria
7Z (See HZ)
8J (See CE9)
8P ..... Barbados
8Q,VS9 ..... Maldive Is.
8R ..... Guyana
8Z4 ..... Saudi Arabia/Iraq Neutral Zone
9A,(M1[1]) ..... San Marino
9G[22] ..... Ghana
9H ..... Malta
9J ..... Zambia
9K ..... Kuwait
9L ..... Sierra Leone
9M2[23] ..... West Malaysia
9M6,8[23] ..... East Malaysia
9N ..... Nepal
9Q ..... Rep. of Zaire
9U[24] ..... Burundi
9V[25] ..... Singapore
9X[24] ..... Rwanda
9Y ..... Trinidad & Tobago
..... Abu Ail, Jabal at Tair
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9. (TN) Only contacts made August 15, 1960, and after, will count for this country.

10. (TR) Only contacts made August 17, 1960, and after, will count for this country.

11. (TT) Only contacts made August 11, 1960, and after, will count for this country.

12. (TU) Only contacts made August 7, 1960, and after, will count for this country.

13. (TY) Only contacts made August 1, 1960, and after, will count for this country.

14. (TZ) Only contacts made June 20, 1960, and after, will count for this country.

15. (VP2) For credits on QSO's made before June 1, 1958, see page 97, June 1958 QST.

16. (T2,VR8) Only contacts made January 1, 1976, and after, will count for this country.

17. (XT) Only contacts made August 6, 1960, and after, will count for this country.

18. (5T) Only contacts made June 20, 1960, and after, will count for this country.

19. (5U) Only contacts made August 3, 1960, and after, will count for this country.

20. (6W) Only contacts made June 20, 1960, and after, will count for this country.

21. (8F, YB) Only contacts made May 1, 1963, and after, will count for this country.

22. (9G1) Only contacts made March 5, 1957, and after, will count for this country.

23. (9M2, 4, 6, 8) Only contacts made September 16, 1963, and after, will count for these countries.

24. (9U5, 9X5) Only contacts made July 1, 1962, and after, will count for these countries.

25. (9V1) Contacts made between September 15, 1963 and August 9, 1965, will not count for this country.

26. (D6, FH8) Only contacts made after July 5, 1975, count for this country.

27. (KP4) Only contacts made March 1, 1979, and after, will count for this country.

Deleted Countries Total: 48

DELETED COUNTRIES

Credit for any of these countries can be given if the date of contact with the country in question agrees with the date(s) shown in the corresponding footnote.

(AC3[1])[2] ..... Sikkim
(AC4[1])[3] ..... Tibet
C9[4] ..... Manchuria
CN2[5] ..... Tangier
CR8[6] ..... Damao, Diu
CR8[6] ..... Goa
CR8[34] ..... Port. Timor
DA,DJ,DK,DL,DM[7] ..... Germany
EA9[8] ..... Ifni
EA9[38] ..... Rio de Oro
ET2[9] ..... Eritrea
FF8[10] ..... Fr. West Africa
FH[35] ..... Comoros
FI8[11] ..... Fr. Indo-China
FN[12] ..... French India
FQ8[13] ..... Fr. Equatorial Africa
I1[14] ..... Trieste
I5[15] ..... Italian Somaliland
JD/7J[40] ..... Okino Tori-shima
JZØ[16] ..... Netherlands New Guinea
KR6,8,JR6,KA6,[17] ..... Ryukyu Islands
KS4[18] ..... Swan Islands
KZ[39] ..... Canal Zone
P2,VK9[19] ..... Papua Territory
P2,VK9[19] ..... Terr. New Guinea
PK1,2,3[20] ..... Java
PK4[20] ..... Sumatra
PK5[20] ..... Netherlands Borneo
PK6[20] ..... Celebe & Molucca Isls.
UN1[21] ..... Karelo-Finnish Rep.
VO[22] ..... Newfoundland, Labrador
VQ1,5H1[23] ..... Zanzibar
VQ6[24] ..... British Somaliland
VQ9[36] ..... Aldabra
VQ9[36] ..... Desroches
VQ9[36] ..... Farquhar
VS4[25] ..... Sarawak
VS9H[26] ..... Kuria Muria Isls.
ZC5[25] ..... British North Borneo
ZC6[27] ..... Palestine
ZD4[28] ..... Gold Coast, Togoland
(1M[1])[29] ..... Minerva Reefs
9K3,8Z5[30] ..... Kuwait/Saudi Arabia Neutral Zone
9M2[25] ..... Malaya
9S4[31] ..... Saar
9U5[32] ..... Ruanda-Urundi
[33] ..... Blenheim Reef
[37] ..... Geyser Reef

1. Unofficial prefix.

2. (AC3) Only contacts made before May 1, 1975, will count for this country. Contacts made May 1, 1975, and after, count as India.

3. (AC4) Only contacts made before June 1, 1974, will count for this country.

4. (C9) Only contacts made before September 16, 1963, will count for this country.

5. (CN2) Only contacts made before July 1, 1960, will count for this country.

6. (CR8) Only contacts made before January 1, 1962, will count for this country.

7. (DA, DJ, DK, DL, DM) Only contacts made before September 17, 1973, will count for this country.

8. (EA9) Only contacts made May 13, 1969, and before, count for this country.

9. (ET2) Only contacts made November 14, 1962, and before, will count for this country.

10. (FF8) Only contacts made August 6, 1960, and before, will count for this country.

11. (FI8) Only contacts made before December 21, 1950, will count for this country.

12. (FN) Only contacts made before November 1, 1954, will count for this country.

13. (FQ8) Only contacts made August 16, 1960, and before, will count for this country.

14. (I1) Only contacts made before April 1, 1957, will count for this country. Contacts made April 1, 1957, and after, count as Italy.

15. (I5) Only contacts made June 30, 1960, and before, will count for this country.

16. (JZØ) Only contacts made before May 1, 1963, will count for this country.

17. (KR6, JR6, KA6) Only contacts made before May 15, 1972, will count for this country. Contacts made May 15, 1972, and after, count as Japan.

18. (KS4) Only contacts made before September 1, 1972, will count for this country. Contacts made September 1, 1972, and after, count as Honduras.

19. (P2, VK9) Only contacts made before September 16, 1975, will count for this country.

20. (PK1, 2, 3, 4, 5, 6) Only contacts made before May 1, 1963, will count for this country.

21. (UN1) Only contacts made June 30, 1960, and before, will count for this country. Contacts made July 1, 1960, and after, count as European Russian S.F.S.R.

22. (VO) Only contacts made before April 1, 1949, will count for this country.

23. (VQ1, 5H1) Only contacts made before June 1, 1974, will count for this country.

24. (VQ6) Only contacts made June 30, 1960, and before, will count for this country.

25. (VS4, ZC5, 9M2) Only contacts made September 15, 1963, and before, will count for this country.

26. (VS9H) Only contacts made before November 30, 1967, will count for this country. Contacts made December 1, 1967, and after, count as Oman.

27. (ZC6) Only contacts made July 1, 1968, and before, will count for this country.

28. (ZD4) Only contacts made March 5, 1957, and before, will count for this country.

29. (1M) Only contacts made July 15, 1972, and before, will count for this country. Contacts made July 16, 1972, and after, count as Tonga.

30. (9K3, 8Z5) Only contacts made before December 15, 1969, will count for this country.

31. (9S4) Only contacts made before April 1, 1957, and after, count as Germany.

32. (9U5) Only contacts made between July 1, 1960, and July 1, 1962, will count for this country.

33. (Blenheim Reef) Only contacts made between May 4, 1967, and July 1, 1975, will count for this country. Contacts made July 1, 1975, and after, count as Chagos.

34. (CR8) Only contacts made before September 15, 1976, will count for this country.

35. (FH) Only contacts made before July 6, 1975, count toward this country.

36. (VQ9) Only contacts made before June 29, 1976, count for these countries.

37. (Geyser Reef) Only contacts made between May 4, 1967 and March 1, 1978, will count for this country.

38. (EA9) Only contacts made before January 8, 1976 will count for this country.

39. (KZ) Only contacts made before October 1, 1979 will count for this country.

40. (JD/7J) Only contacts made between May 30, 1976 and November 30, 1980, will count for this country. Contacts made December 1, 1980, and after, count as Ogasawara.

PREFIX CROSS REFERENCES

AC[1] (See A5)
AP (See S2-3)
AX (See VK)
CN9 (See CN2, 8)
CR4 (See D4)
CR5 (See S9)
CR5 (See CR3)
CR6 (See D2, 3)
CR7 (See C9)
CR1Ø (See CR8)
DX (See DU)
EAØ (See 3C)
FA (See 7X)
FB8 (See FH8)
FB8 (See FR7)
FB8 (See 5R8)
FD (See 5V)
FE8 (TI)
FF4 (See TU)
FF7 (See 5T)
FF8 (See TY)
FF8 (See TZ)
FF8 (See XT)
FF8 (See 5U7)
FF8 (See 6W8)
FL8 (See TL)
FQ8 (See TN)
FQ8 (See TR)
FQ8 (See TT)
FQ8 (See TT)
FU8 (See YJ)
HE (See HBØ)
HG (See HA)
HT (See YN)
IM (See IS)
JR6 (See KR6, 8)
KA6 (See KR6, 8)
KG6I (See JD, KA1)
LA/G (See CE9,3Y)
LA/P (See JX, JW)
MP4B (See A9)
MP4D (See A6)
MP4M (See A4)
MP4Q (See A7)
MP4T (See A6)
OF (See OH)
OQ5,Ø (See 9Q5)
PK (See YB)
PX[1] (See C3)
VK9 (See C2)
VK9AA-MZ (See P2)
VP2G (See J3)
VP2K (See VP2E)
VP3 (See 8R)
VP4 (See 9Y4)
VP5 (See ZF1)
VP5 (See 6Y5)
VP6 (See 8P)
VP7 (See C6)
VQ1 (See 5H1)
VQ2 (See 9J2)
VQ3 (See 5H3)
VQ4 (See 5Z4)
VQ5 (See 5X5)
VQ8 (See 3B6,7,8,9)
VQ9 (See S7)
VR2 (See 3D2)
VR4 (See H4)
VR5 (See A3)
VS1 (See 9M2)
VS1 (See 9V1)
VS2 (See 9M2)
VS9 (See 7O)
VS9O (See A4)
VX9 (See VE1)
VYØ (See VE1)
XF (See XE)
YNØ (See YN)
YT (See YU)
YZ (See YU)
ZB1 (See 9H1)
ZD1 (See 9L1)
ZD2 (See 5N2)
ZD3 (See C5)
ZD4 (See 9G1)
ZD5 (See 3D6)
ZD6 (See 7Q7)
ZM6 (See 5W1)
ZS7 (See 3D6)
ZS8 (See 7P8)
ZS9 (See A2)
3W8 (See XV5)
3Z (See SP)
4A (See XE)
4M (See YV)
6D (See XE)
6D4 (See XF4)
7G (See 3X)
7J (See JD1)
8F (See YB)
8Z5 (See 9K3)
9E, 9F (See ET3)
9M4 (See 9V1)

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Table of Allocation of International Call Signs[1]

Call Sign Series	*Allocated to*
AAA-ALZ	United States of America
AMA-AOZ	Spain
APA-ASZ	Pakistan (Islamic Republic of)
ATA-AWZ	India (Republic of)
AXA-AXZ	Australia
AYA-AZZ	Argentine Republic
A22AAA-A22ZZZ	Botswana (Republic of)
A3A-A3Z	Tonga (Kingdom of)
A4A-A4Z	Oman (Sultanate of)
A5A-A5Z	Bhutan (Kingdom of)
A6A-A6Z	United Arab Emirates
A7A-A7Z	Qatar (State of)
A8A-A8Z	Liberia (Republic of)
A9A-A9Z	Bahrain (State of)
BAA-BZZ	China (People's Republic of)
CAA-CEZ	Chile
CFA-CKZ	Canada
CLA-CMZ	Cuba
CNA-CNZ	Morocco (Kingdom of)
COA-COZ	Cuba
CPA-CPZ	Bolivia (Republic of)
CQA-CUZ	Portugal
CVA-CXZ	Uruguay (Oriental Republic of)
CYA-CZZ	Canada
C2A-C2Z	Nauru (Republic of)
C3A-C3Z	Andorra (Principality of)
C4A-C4Z	Cyprus (Republic of)
C5A-C5Z	Gambia (Republic of the)
C62AA-C69ZZ	Bahamas (Commonwealth of the)
C7A-C7Z*	World Meteorological Organization
C8A-C9Z	Mozambique (People's Republic of)
DAA-DRZ	Germany (Federal Republic of)
DSA-DTZ	Republic of Korea
DUA-DZZ	Philippines (Republic of the)
D2A-D3Z	Angola (People's Republic of)
D4A-D4Z	Cape Verde (Republic of)
D5A-D5Z	Liberia (Republic of)
D6A-D6Z	Comoros (Federal and Islamic Republic of the)
D7A-D9Z	Republic of Korea
EAA-EHZ	Spain
EIA-EJZ	Ireland
EKA-EKZ	Union of Soviet Socialist Republics
ELA-ELZ	Liberia (Republic of)
EMA-EOZ	Union of Soviet Socialist Republics
EPA-EQZ	Iran (Islamic Republic of)
ERA-ESZ	Union of Soviet Socialist Republics
ETA-ETZ	Ethiopia
EUA-EWZ	Byelorussian Soviet Socialist Republic
EXA-EZZ	Union of Soviet Socialist Republics
FAA-FZZ	France
GAA-GZZ	United Kingdom of Great Britain and Northern Ireland
HAA-HAZ	Hungarian People's Republic
HBA-HBZ	Switzerland (Confederation of)
HCA-HDZ	Ecuador
HEA-HEZ	Switzerland (Confederation of)
HFA-HFZ	Poland (People's Republic of)
HGA-HGZ	Hungarian People's Republic
HHA-HHZ	Haiti (Republic of)
HIA-HIZ	Dominican Republic
HJA-HKZ	Colombia (Republic of)
HLA-HLZ	Republic of Korea[2]
HMA-HMZ	Democratic People's Republic of Korea[2]
HNA-HNZ	Iraq (Republic of)
HOA-HPZ	Panama (Republic of)
HQA-HRZ	Honduras (Republic of)
HSA-HSZ	Thailand
HTA-HTZ	Nicaragua
HUA-HUZ	El Salvador (Republic of)
HVA-HVZ	Vatican City State
HWA-HYZ	France
HZA-HZZ	Saudi Arabia (Kingdom of)
H2A-H2Z	Cyprus (Republic of)
H3A-H3Z	Panama (Republic of)
H4A-H4Z	Solomon Islands
H6A-H7Z	Nicaragua
H8A-H9Z	Panama (Republic of)
IAA-IZZ	Italy
JAA-JSZ	Japan
JTA-JVZ	Mongolian People's Republic
JWA-JXZ	Norway
JYA-JYZ	Jordan (Hashemite Kingdom of)
JZA-JZZ	Indonesia (Republic of)
J2A-J2Z	Djibouti (Republic of)
J3A-J3Z	Grenada
J4A-J4Z	Greece
J5A-J5Z	Guinea-Bissau (Republic of)
J6A-J6Z	Saint Lucia
J7A-J7Z	Dominica
KAA-KZZ	United States of America
LAA-LNZ	Norway
LOA-LWZ	Argentine Republic
LXA-LXZ	Luxembourg
LYA-LYZ	Union of Soviet Socialist Republics
LZA-LZZ	Bulgaria (People's Republic of)
L2A-L9Z	Argentine (Republic of)
MAA-MZZ	United Kingdom of Great Britain and Northern Ireland
NAA-NZZ	United States of America
OAA-OCZ	Peru
ODA-ODZ	Lebanon
OEA-OEZ	Austria
OFA-OJZ	Finland
OKA-OMZ	Czechoslovak Socialist Republic
ONA-OTZ	Belgium
OUA-OZZ	Denmark
PAA-PIZ	Netherlands (Kingdom of the)
PJA-PJZ	Netherlands Antilles
PKA-POZ	Indonesia (Republic of)
PPA-PYZ	Brazil (Federative Republic of)
PZA-PZZ	Suriname (Republic of)
P2A-P2Z	Papua New Guinea
P3A-P3Z	Cyprus (Republic of)
P4A-P4Z	Netherlands Antilles
P5A-P9Z	Democratic People's Republic of Korea
QAA-QZZ	(Service abbreviations)
RAA-RZZ	Union of Soviet Socialist Republics
SAA-SMZ	Sweden
SNA-SRZ	Poland (People's Republic of)
SSA-SSM	Egypt (Arab Republic of)
SSN-STZ	Sudan (Democratic Republic of the)
SUA-SUZ	Egypt (Arab Republic of)
SVA-SZZ	Greece
S2A-S3Z	Bangladesh (People's Republic of)
S6A-S6Z	Singapore (Republic of)
S7A-S7Z	Seychelles (Republic of)
S92AA-S92ZZ	Sao Tome and Principe (Democratic Republic of)
TAA-TCZ	Turkey
TDA-TDZ	Guatemala (Republic of)
TEA-TEZ	Costa Rica
TFA-TFZ	Iceland
TGA-TGZ	Guatemala (Republic of)
THA-THZ	France
TIA-TIZ	Costa Rica
TJA-TJZ	Cameroon (United Republic of)
TKA-TKZ	France
TLA-TLZ	Central African Republic
TMA-TMZ	France
TNA-TNZ	Congo (People's Republic of the)
TOA-TQZ	France
TRA-TRZ	Gabon Republic
TSA-TSZ	Tunisia
TTA-TTZ	Chad (Republic of the)
TUA-TUZ	Ivory Coast (Republic of the)
TVA-TXZ	France
TYA-TYZ	Benin (People's Republic of)
TZA-TZZ	Mali (Republic of)
T2A-T2Z	Tuvalu
T3A-T3Z	Kiribati Republic
T4A-T4Z	Cuba
T5A-T5Z	Somali Democratic Republic
T6A-T6Z	Afghanistan (Democratic Republic of)
UAA-UQZ	Union of Soviet Socialist Republics
URA-UTZ	Ukrainian Soviet Socialist Republic
UUA-UZZ	Union of Soviet Socialist Republics
VAA-VGZ	Canada
VHA-VNZ	Australia
VOA-VOZ	Canada
VPA-VSZ	United Kingdom of Great Britain and Northern Ireland
VTA-VWZ	India (Republic of)
VXA-VYZ	Canada
VZA-VZZ	Australia
WAA-WZZ	United States of America
XAA-XIZ	Mexico
XJA-XOZ	Canada
XPA-XPZ	Denmark
XQA-XRZ	Chile
XSA-XSZ	China (People's Republic of)
XTA-XTZ	Upper Volta (Republic of)
XUA-XUZ	Democratic Kampuchea
XVA-XVZ	Viet Nam (Socialist Republic of)

(Continued)

XWA-XWZ	Lao People's Democratic Republic
XXA-XXZ	Portugal
XYA-XZZ	Burma (Socialist Republic of the Union of)
YAA-YAZ	Afghanistan (Democratic Republic of)
YBA-YHZ	Indonesia (Republic of)
YIA-YIZ	Iraq (Republic of)
YJA-YJZ	New Hebrides
YKA-YKZ	Syrian Arab Republic
YLA-YLZ	Union of Soviet Socialist Republics
YMA-YMZ	Turkey
YNA-YNZ	Nicaragua
YOA-YRZ	Romania (Socialist Republic of)
YSA-YSZ	El Salvador (Republic of)
YTA-YUZ	Yugoslavia (Socialist Federal Republic of)
YVA-YYZ	Venezuela (Republic of)
YZA-YZZ	Yugoslavia (Socialist Federal Republic of)
Y2A-Y9Z	German Democratic Republic
ZAA-ZAZ	Albania (Socialist People's Republic of)
ZBA-ZJZ	United Kingdom of Great Britain and Northern Ireland
ZKA-ZMZ	New Zealand
ZNA-ZOZ	United Kingdom of Great Britain and Northern Ireland
ZPA-ZPZ	Paraguay (Republic of)
ZQA-ZQZ	United Kingdom of Great Britain and Northern Ireland
ZRA-ZUZ	South Africa (Republic of)
ZVA-ZZZ	Brazil (Federative Republic of)
2AA-2ZZ	United Kingdom of Great Britain and Northern Ireland
3AA-3AZ	Monaco
3BA-3BZ	Mauritius
3CA-3CZ	Equatorial Guinea (Republic of)
3DA-3DM	Swaziland (Kingdom of)
3DN-3DZ	Fiji
3EA-3FZ	Panama (Republic of)
3GA-3GZ	Chile
3HA-3UZ	China (People's Republic of)
3VA-3VZ	Tunisia
3WA-3WZ	Viet Nam (Socialist Republic of)
3XA-3XZ	Guinea (People's Revolutionary Republic of)
3YA-3YZ	Norway
3ZA-3ZZ	Poland (People's Republic of)
4AA-4CA	Mexico
4DA-4IZ	Philippines (Republic of the)
4JA-4LZ	Union of Soviet Socialist Republics
4MA-4MZ	Venezuela (Republic of)
4NA-4OZ	Yugoslavia (Socialist Federal Republic of)
4PA-4SZ	Sri Lanka (Democratic Socialist Republic of)
4TA-4TZ	Peru
4UA-4UZ*	United Nations Organization
4VA-4VZ	Haiti (Republic of)
4WA-4WZ	Yemen Arab Republic
4XA-4XZ	Israel (State of)
4YA-4YZ*	International Civil Aviation Organization
4ZA-4ZZ	Israel (State of)
5AA-5AZ	Libya (Socialist People's Libyan Arab Jamahiriya)
5BA-5BZ	Cyprus (Republic of)
5CA-5GZ	Morocco (Kingdom of)
5HA-5IZ	Tanzania (United Republic of)
5JA-5KZ	Colombia (Republic of)
5LA-5MZ	Liberia (Republic of)
5NA-5OZ	Nigeria (Federal Republic of)
5PA-5QZ	Denmark
5RA-5SZ	Madagascar (Democratic Republic of)
5TA-5TZ	Mauritania (Islamic Republic of)
5UA-5UZ	Niger (Republic of the)
5VA-5VZ	Togolese Republic
5WA-5WZ	Western Samoa
5XA-5XZ	Uganda (Republic of)
5YA-5ZZ	Kenya (Republic of)
6AA-6BZ	Egypt (Arab Republic of)
6CA-6CZ	Syrian Arab Republic
6DA-6JZ	Mexico
6KA-6NZ	Republic of Korea
6OA-6OZ	Somali Democratic Republic
6PA-6SZ	Pakistan (Islamic Republic of)
6TA-6UZ	Sudan (Democratic Republic of the)
6VA-6WZ	Senegal (Republic of the)
6XA-6XZ	Madagascar (Democratic Republic of)
6YA-6YZ	Jamaica
6ZA-6ZZ	Liberia (Republic of)
7AA-7IZ	Indonesia (Republic of)
7JA-JNZ	Japan
7OA-7OZ	Yemen (People's Democratic Republic of)
7PA-7PZ	Lesotho (Kingdom of)
7QA-7QZ	Malawi (Republic of)
7RA-7RZ	Algeria (Algerian Democratic and Popular Republic)
7SA-7SZ	Sweden
7TA-7YZ	Algeria (Algerian Democratic and Popular Republic)
7ZA-7ZZ	Saudi Arabia (Kingdom of)
8AA-8IZ	Indonesia (Republic of)
8JA-8NZ	Japan
8OA-8OZ	Botswana (Republic of)
8PA-8PZ	Barbados
8QA-8QZ	Maldives (Republic of)
8RA-8RZ	Guyana
8SA-8SZ	Sweden
8TA-8YZ	India (Republic of)
8ZA-8ZZ	Saudi Arabia (Kingdom of)
9AA-9AZ	San Marino (Republic of)
9BA-9DZ	Iran (Islamic Republic of)
9EA-9FZ	Ethiopia
9GA-9GZ	Ghana
9HA-9HZ	Malta (Republic of)
9IA-9JZ	Zambia (Republic of)
9KA-9KZ	Kuwait (State of)
9LA-9LZ	Sierra Leone
9MA-9MZ	Malaysia
9NA-9NZ	Nepal
9OA-9TZ	Zaire (Republic of)
9UA-9UZ	Burundi (Republic of)
9VA-9VZ	Singapore (Republic of)
9WA-9WZ	Malaysia
9XA-9XZ	Rwanda (Republic of)
9YA-9ZZ	Trinidad and Tobago

1) The series of call signs with as asterisk indicate the international organization to which they are allocated.

2) The two administrations concerned undertake to change their existing use of HLA-HLZ and HMA-HMZ Call Sign series to conform with the 1979 Table of Allocations as soon as practicable, in order to clarify their operational arrangements for other administrations. In this regard, the Administration of the Republic of Korea will take action to change the existing call signs registered with the ITU in the HMA-HMZ series as changes occur in the use of call signs in this series. The above-mentioned actions shall, in any case, be completed by 1 January 1984.

ARRL RECOMMENDED PRECEDENCES

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisons are designed to increase the efficiency of our service both in normal times and in emergency.

Precedences

EMERGENCY Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be **very rare**. On CW/RTTY, this designation will **always** be spelled out. When in doubt, do not use it.

PRIORITY Use abbreviation *P* on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the **utmost** urgency d) notice of death or injury in a disaster area, personal or official.

WELFARE This classification, abbreviated as *W* on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (*R* on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

NOTE: The precedence always follows the message number. For an example, a message number may be 207 *R* on CW and "Two Zero Seven Routine" on phone.

ARRL NUMBERED RADIOGRAMS

The letters ARL are inserted in the preamble in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals. *Example:* NR 1 R W1AW ARL 5 NEWINGTON CONN JUNE 1 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3968 BT ARL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *Operating an Amateur Radio Station*, published by ARRL.

Group One -- -- For Possible "Relief Emergency" Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio operators needed to assist with emergency at this location.
TEN	Please contact _____ . Advise to standby and provide further emergency information, instructions or assistance.
ELEVEN	Establish Amateur Radio emergency communications with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists here.
FOURTEEN	Situation here becoming critical. Losses and damage from _____ increasing.
FIFTEEN	Please advise your condition and what help is needed.
SIXTEEN	Property damage very severe in this area.
SEVENTEEN	REACT communications services also available. Establish REACT communications with _____ on channel _____ .
EIGHTEEN	Please contact me as soon as possible at _____ .
NINETEEN	Request health and welfare report on _____ . (State name, address and telephone number.)
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at _____ .
TWENTY ONE	Search and Rescue assistance is needed by local authorities here. Advise availability.
TWENTY TWO	Need accurate information on the extent and type of conditions now existing at your location. Please furnish this information and reply without delay.
TWENTY THREE	Report at once the accessibility and best way to reach your location.
TWENTY FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.
TWENTY FIVE	Furnish as soon as possible the weather conditions at your location.
TWENTY SIX	Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources, must carry the signature of the originating official.

Group Two -- -- Routine messages

FORTY SIX	Greetings on your birthday and best wishes for many more to come.
FIFTY	Greetings by Amateur Radio.
FIFTY ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators here at _____ . Am having a wonderful time.
FIFTY TWO	Really enjoyed being with you. Looking forward to getting together again.
FIFTY THREE	Received your _____ . It's appreciated; many thanks.
FIFTY FOUR	Many thanks for your good wishes.
FIFTY FIVE	Good news is always welcome. Very delighted to hear about yours.
FIFTY SIX	Congratulations on your _____ , a most worthy and deserved achievement.
FIFTY SEVEN	Wish we could be together.
FIFTY EIGHT	Have a wonderful time. Let us know when you return.
FIFTY NINE	Congratulations on the new arrival. Hope mother and child are well.
*SIXTY	Wishing you the best of everything on _____ .
SIXTY ONE	Wishing you a very merry Christmas and a happy New Year.
*SIXTY TWO	Greetings and best wishes to you for a pleasant _____ holiday season.
SIXTY THREE	Victory or defeat, our best wishes are with you. Hope you win.
SIXTY FOUR	Arrived safely at _____ .
SIXTY FIVE	Arriving _____ on _____ . Please arrange to meet me there.
SIXTY SIX	DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
SIXTY SEVEN	Your message number _____ undeliverable because of _____ . Please advise.
SIXTY EIGHT	Sorry to hear you are ill. Best wishes for a speedy recovery.

*Can be used for all holidays.

ARL NUMBERS SHOULD BE SPELLED OUT AT ALL TIMES.

License Renewal Information

1) Attach a photocopy, or the original, of your license to the FCC Form 610 (available from ARRL hq.; s.a.s.e. please).

2) Mail to FCC, Box 1020, Gettysburg, PA 17325.

3) Retain copies of everything, if possible, as proof of filing before expiration. If you file before the license expiration date, you may continue to operate beyond the expiration date and until the new license arrives. After expiration, there is a one-year grace period under which you may still renew and keep your call sign without retesting, but you must wait until the new license arrives to operate. There is also a five-year grace period under which you may still renew; however, after the initial one-year period, you will be issued a new license with a new call sign. After this five year grace period expires, you must be re-examined for a new license. Normally, application should be made approximately 90 days before expiration; however, renewal can be applied for at any time during the term of the license.

4) If you are simply modifying your license (change of address, for example), you must fill out the Form 610; a letter is no longer sufficient. Incidentally, your license will also be automatically renewed at this time.

5) If you have any questions or problems, drop a note to the Membership Services Department, ARRL.

Table 1

The "Considerate Operator's Frequency Guide"

Some frequencies that are generally recognized for certain modes or certain activities:

1800-1810 kHz	cw, DX calling	21.09-21.10 MHz	RTTY
1825-1830 kHz	"DX window" (no W/VEs)	21.34 MHz	SSTV
3610-3630 kHz	RTTY	28.09-28.10 MHz	RTTY
3845 kHz	SSTV	28.68 MHz	SSTV
7090-7100 kHz	RTTY	28.30-29.50 MHz	Satellite downlinks
7171 kHz	SSTV	29.52-29.58 MHz	Repeater inputs
14.08-14.10 MHz	RTTY	29.60 MHz	FM simplex
14.23 MHz	SSTV	29.62-29.68 MHz	Repeater outputs

(In addition, on 20 meters in particular, the low end of the U.S. phone segment is reserved for DX, the high end for traffic, and ragchewing in between. The dividing lines are not definite, however.) Radio Control R/C Channels: 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7 and 53.8 MHz.

U.S. Amateur Frequency and Mode Allocations

Power Limits: All U.S. amateurs are limited to 250-watts dc input in the Novice segments. On all other segments, with certain exceptions in the 160-meter and 420-MHz bands, 1-kilowatt dc input is permitted. Also, there are erp limitations for stations in repeater operation. (See 97.67, FCC rules.) At all times the power level should be kept down to that necessary to maintain communications. (Revised as of December 6, 1980)

Bandwidth Limitations

FREQUENCY (OR PHASE) MODULATION: On frequencies below 29.0 MHz, the bandwidth of F3 emission shall not exceed that of an A3 emission having the same audio characteristics.

TELEVISION: On frequencies below 50 MHz, the bandwidth of A5 and F5 emissions shall not exceed that of an A3 single sideband emission. Between 50 and 225 MHz, single sideband or double sideband A5 may be used and the bandwidth shall not exceed that of an A3 single sideband or double sideband signal respectively. The bandwidth of F5 emission shall not exceed that of an A3 single sideband emission. Below 225 MHz, A3 and A5 emissions may be used simultaneously on the same carrier frequency provided the total bandwidth does not exceed that of an A3 double sideband emission.

DIGITAL TRANSMISSION:

(a) *International Telegraphic Alphabet No. 2 (Baudot code).* When using frequency-shift keying, the shift shall be less than 900 Hz. With audio frequency-shift keying, the highest fundamental modulating frequency shall not exceed 3000 Hz and the audio frequency shift shall be less than 900 Hz.

(b) *American Standard Code for Information Interchange (ASCII).* F1 emission shall be utilized on those frequencies between 3.5 and 21.25 MHz where its use is permissible, and the sending speed shall not exceed 300 bauds. F1, F2 and A2 emissions may be utilized on those frequencies between 28 and 225 MHz where their use is permissible and the sending speed shall not exceed 1200 bauds. F1, F2 and A2 emissions may be utilized on those frequencies above 420 MHz where their use is permissible and the sending speed shall not exceed 19.6 kilobauds.

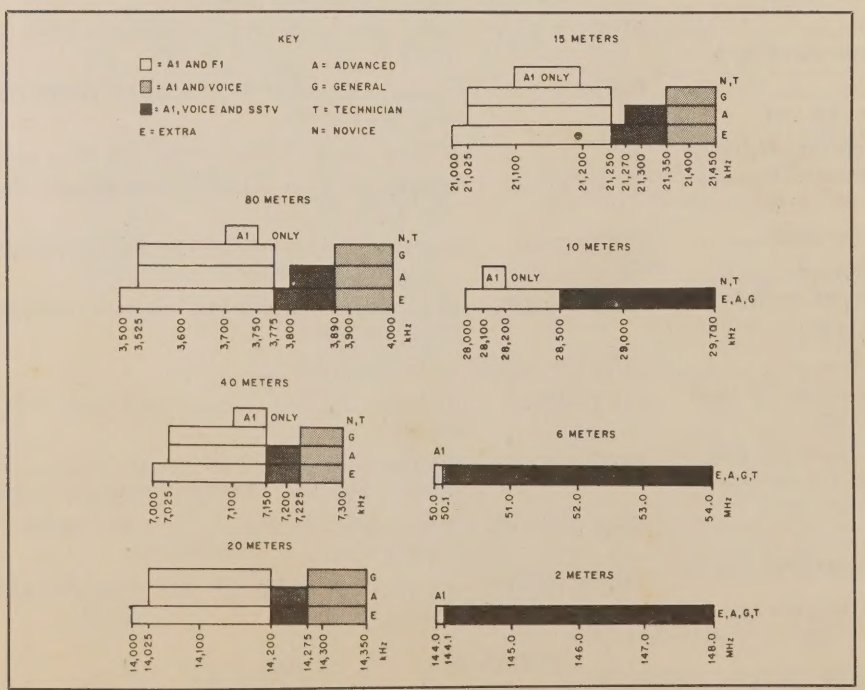
The code must conform to the American Standard Code for Information Interchange (ASCII) as defined in American National Standards Institute (ANSI) standard X3.4-1968. See §97.69 of the Amateur Rules.

ALL MODES: The carrier frequency plus modulating frequencies must be contained within amateur allocations and within appropriate subbands.

NOTE: Some amateur bands are shared with other services. Some geographical limitations exist for the 420-MHz band. For details, and for information on specialized modes, see *ARRL License Manual.* For information on repeaters, see the *License Manual* and *Repeater Directory.*

160 METERS: Extra, Advanced and General may use some segments at 1.8-2.0 MHz. Limitations are on a geographical basis; see *License Manual* or request form MS/G-7 from ARRL hq.

Other — All modes, except as noted.



Extra, Advanced, General, Technician

MHz	*GHz***
220-225*	10.0-10.5*
420-450*	24.0-24.25
1215-1300*	48.0-50.0
2300-2450	71.0-76.0
3300-3500	165.0-170.0
5650-5925	240.0-250.0
	All above 300

*Pulse not permitted.
**1 GHz = 1000 MHz.

INTERNATIONAL Q SIGNALS

A Q signal followed by a ? asks a question. A Q signal without the ? answers the question affirmatively, unless otherwise indicated.

QRA	What is the name of your station?
QRG	What's my exact frequency?
QRH	Does my frequency vary?
QRI	How is my tone? (1-3)
QRK	What is my signal intelligibility? (1-5)
QRL	Are you busy?
QRM	Is my transmission being interfered with?
QRN	Are you troubled by static?
QRO	Shall I increase transmitter power?
QRP	Shall I decrease transmitter power?
QRQ	Shall I send faster?
QRS	Shall I send slower?
QRT	Shall I stop sending?
QRU	Have you anything for me? (Answer in negative).
QRV	Are you ready?
QRW	Shall I tell . . . . . you're calling him?
QRX	When will you call again?
QRZ	Who is calling me?
QSA	What is my signal strength? (1-5)
QSB	Are my signals fading?
QSD	Are my signals mutilated?
QSG	Shall I send . . . . . messages at a time?
QSK	Can you work breakin?
QSL	Can you acknowledge receipt?
QSM	Shall I repeat the last message sent?
QSO	Can you communicate with . . . . . direct?
QSP	Will you relay to . . . . . ?
QSV	Shall I send a series of V's?
QSW	Will you transmit on . . . . . ?
QSX	Will you listen for . . . . . on . . . . . ?
QSY	Shall I change frequency?
QSZ	Shall I send each word/group more than once? (Answer, send twice or . . . . .)
QTA	Shall I cancel number . . . . . ?
QTB	Do you agree with my word count? (Answer negative).
QTC	How many messages have you to send?
QTH	What is your location?
QTR	What is your time?
QTV	Shall I stand guard for you . . . . . ?
QTX	Will you keep your station open for further communication with me?
QUA	Have you news of . . . . . ?

TIME CONVERSION CHART

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400*	2000	1900	1800	1700	1600

Universal Coordinated Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15° in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

*0000 and 2400 are interchangeable. 2400 is associated with the date of the day ending, 0000 with the day just starting.

THE R-S-T SYSTEM

READABILITY

1 — Unreadable.
2 — Barely readable, occasional words distinguishable.
3 — Readable with considerable difficulty.
4 — Readable with practically no difficulty.
5 — Perfectly readable.

SIGNAL STRENGTH

1 — Faint signals, barely perceptible.
2 — Very weak signals.
3 — Weak signals.
4 — Fair signals.
5 — Fairly good signals.
6 — Good signals.
7 — Moderately strong signals.
8 — Strong signals.
9 — Extremely strong signals.

TONE

1 — Sixty cycle a.c. or less, very rough and broad.
2 — Very rough a.c. very harsh and broad.
3 — Rough a.c. tone, rectified but not filtered.
4 — Rough note, some trace of filtering.
5 — Filtered rectified a.c. but strongly ripple-modulated.
6 — Filtered tone, definite trace of ripple modulation.
7 — Near pure tone, trace of ripple modulation.
8 — Near perfect tone, slight trace of modulation.
9 — Perfect tone, no trace of ripple or modulation of any kind.

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly a click, add K. The above reporting system is used on c w and voice, leaving out the "tone" report on voice.

ITU Phonetic Alphabet

Word list adopted by the International Telecommunication Union

A	ALFA
B	BRAVO
C	CHARLIE
D	DELTA
E	ECHO
F	FOXTROT
G	GOLF
H	HOTEL
I	INDIA
J	JULIETT
K	KILO
L	LIMA
M	MIKE
N	NOVEMBER
O	OSCAR
P	PAPA
Q	QUEBEC
R	ROMEO
S	SIERRA
T	TANGO
U	UNIFORM
V	VICTOR
W	WHISKEY
X	X-RAY
Y	YANKEE
Z	ZULU

IN AN EMERGENCY

Monitor your local emergency net frequency.

Make contact with your local EC or RO.

Take immediate steps to follow any prearranged plans.

Stay off the air unless or until you are *sure* you can be of assistance.

In widespread emergencies, monitor W1AW for latest bulletins and news.

A
R
R
L